Subnetting Speed Kit — Set 2

Target time: **20 minutes** (under 1 minute per question). No calculator. Show your working. /25 to /30 with broadcast off-by-one traps.

Name:	Date:	Time taken:	Score: / 20

1. **On a /30, what is 10.135.238.200?**
   Write: Tick one
   ☐ The network address ☐ A usable host address ☐ The broadcast address

2. **Which network is 10.36.126.182/28 in?**
   Write: Network address
   Network: _____

3. **Which network is 172.31.151.206/29 in?**
   Write: Network address
   Network: _____

4. **Last usable host in the subnet of 172.19.76.69/30?**
   Write: Last usable host
   Last usable: _____

5. **10.83.71.156/27: find the network, broadcast and usable range.**
   Write: Network, broadcast and usable range
   Network: _____ Broadcast: _____
   Usable range: _____

6. **192.168.66.105/29: find the network, broadcast and usable range.**
   Write: Network, broadcast and usable range
   Network: _____ Broadcast: _____
   Usable range: _____

7. **On a /28, what is 198.51.100.111?**
   Write: Tick one
   ☐ The network address ☐ A usable host address ☐ The broadcast address

8. **192.0.2.108/25: find the network, broadcast and usable range.**
   Write: Network, broadcast and usable range
   Network: _____ Broadcast: _____
   Usable range: _____

9. **Block size (magic number) for /30?**
   Write: Block size
   Block size: _____

10. **172.28.84.37/25: find the network, broadcast and usable range.**
    Write: Network, broadcast and usable range
    Network: _____ Broadcast: _____
    Usable range: _____

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11. **Smallest prefix that fits 2 hosts?**
    Write: Prefix (or mask)
    Prefix: _____

12. **Prefix length for mask 255.255.255.248?**
    Write: Prefix (e.g. /26)
    Prefix: _____

13. **10.136.221.164/26: find the network, broadcast and usable range.**
    Write: Network, broadcast and usable range
    Network: _____ Broadcast: _____
    Usable range: _____

14. **Broadcast address for 192.168.216.129/30?**
    Write: Broadcast address
    Broadcast: _____

15. **Which network is 192.0.2.63/27 in?**
    Write: Network address
    Network: _____

16. **Broadcast address for 172.30.99.42/30?**
    Write: Broadcast address
    Broadcast: _____

17. **Smallest prefix that fits 5 hosts?**
    Write: Prefix (or mask)
    Prefix: _____

18. **Last usable host in the subnet of 172.21.127.206/25?**
    Write: Last usable host
    Last usable: _____

19. **Which network is 172.26.165.203/28 in?**
    Write: Network address
    Network: _____

20. **VLSM: 10.234.183.0/24 already has 10.234.183.0/25, 10.234.183.128/27. Next subnet for 2 hosts?**
    Write: Network with prefix
    Subnet: _____

Answers are in a separate file (set-2-answers.pdf) at subnetcalculator.dev/subnetting-speed-kit/

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